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Search Results - Record(s) 1 through 10 of 11 returned.

☐ 1. Document ID: US 6855315 B2

L2: Entry 1 of 11

File: USPT

Feb 15, 2005

US-PAT-NO: 6855315

DOCUMENT-IDENTIFIER: US 6855315 B2

TITLE: Kits for detecting swine infertility and respiratory syndrome (SIRS) virus

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; James E.	White Bear Lake	MN		
Benfield; David A.	Brookings	SD		
<u>Chladek; Danny W.</u>	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		

US-CL-CURRENT: 424/130.1; 424/159.1, 435/332, 435/975

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 2. Document ID: US 6498008 B2

L2: Entry 2 of 11

File: USPT

Dec 24, 2002

US-PAT-NO: 6498008

DOCUMENT-IDENTIFIER: US 6498008 B2

**** See image for Certificate of Correction ****

TITLE: Method for detecting swine infertility and respiratory virus

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; James E.	White Bear Lake	MN		
Benfield; David A.	Brookings	SD		
<u>Chladek; Danny W.</u>	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		

Gorcyca; David E. St. Joseph MO

US-CL-CURRENT: [435/5](#); [435/7.1](#), [435/7.92](#), [435/7.95](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6241990 B1

L2: Entry 3 of 11

File: USPT

Jun 5, 2001

US-PAT-NO: 6241990

DOCUMENT-IDENTIFIER: US 6241990 B1

**** See image for Certificate of Correction ****

TITLE: Immunogenic composition containing inactivated swine infertility and respiratory Syndrome virus

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; James E.	White Bear Lake	MN		
Benfield; David A.	Brookings	SD		
<u>Chladek; Danny W.</u>	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		

US-CL-CURRENT: [424/204.1](#); [424/211.1](#), [435/235.1](#), [435/236](#), [435/237](#), [435/238](#), [435/239](#), [435/69.1](#), [435/69.3](#), [536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 6110468 A

L2: Entry 4 of 11

File: USPT

Aug 29, 2000

US-PAT-NO: 6110468

DOCUMENT-IDENTIFIER: US 6110468 A

**** See image for Certificate of Correction ****

TITLE: Vaccine for swine infertility and respiratory syndrome and method of use thereof

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; James E.	White Bear Lake	MN		
Benfield; David A.	Brookings	SD		
<u>Chladek; Danny W.</u>	St. Joseph	MO		

Harris; Louis L. St. Joseph MO
Gorcyca; David E. St. Joseph MO

US-CL-CURRENT: 424/204.1; 435/235.1, 435/236, 435/237, 435/238, 435/239, 435/69.1,
435/69.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6080570 A

L2: Entry 5 of 11

File: USPT

Jun 27, 2000

US-PAT-NO: 6080570

DOCUMENT-IDENTIFIER: US 6080570 A

**** See image for Certificate of Correction ****

TITLE: Method of producing a vaccine for Swine Infertility and Respiratory Syndrome

DATE-ISSUED: June 27, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Chladek; Danny W.</u>	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		

US-CL-CURRENT: 435/235.1; 424/815, 435/236, 435/237, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6042830 A

L2: Entry 6 of 11

File: USPT

Mar 28, 2000

US-PAT-NO: 6042830

DOCUMENT-IDENTIFIER: US 6042830 A

TITLE: Viral agent associated with mystery swine disease

DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Chladek; Danny W.</u>	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		
Harris; Louis L.	Forsythe	MO		

US-CL-CURRENT: 424/184.1; 424/204.1, 424/218.1, 424/221.1, 424/815, 435/235.1,
435/236, 435/237, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 7. Document ID: US 5989563 A

L2: Entry 7 of 11

File: USPT

Nov 23, 1999

US-PAT-NO: 5989563

DOCUMENT-IDENTIFIER: US 5989563 A

TITLE: Viral agent associated with mystery swine disease

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Chladek; Danny W.</u>	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		
Harris; Louis L.	Forsythe	MO		

US-CL-CURRENT: 424/204.1; 424/199.1, 435/236, 435/237

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 8. Document ID: US 5846805 A

L2: Entry 8 of 11

File: USPT

Dec 8, 1998

US-PAT-NO: 5846805

DOCUMENT-IDENTIFIER: US 5846805 A

**** See image for Certificate of Correction ****

TITLE: Culture of swine infertility and respiratory syndrome virus in simian cells

DATE-ISSUED: December 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; James E.	White Bear Lake	MN		
Benfield; David A.	Brookings	SD		
<u>Chladek; Danny W.</u>	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		

US-CL-CURRENT: 435/235.1; 435/236, 435/237, 435/239

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 9. Document ID: US 5840563 A

L2: Entry 9 of 11

File: USPT

Nov 24, 1998

US-PAT-NO: 5840563

DOCUMENT-IDENTIFIER: US 5840563 A

**** See image for Certificate of Correction ****

TITLE: Method for growing swine infertility and respiratory syndrome virus

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Chladek, Danny W.</u>	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		

US-CL-CURRENT: 435/235.1; 435/236, 435/237, 435/238, 435/5, 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 5683865 A

L2: Entry 10 of 11

File: USPT

Nov 4, 1997

US-PAT-NO: 5683865

DOCUMENT-IDENTIFIER: US 5683865 A

**** See image for Certificate of Correction ****

TITLE: Method for diagnosis of mystery swine disease

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; James E.	White Bear Lake	MN		
Benfield; David A.	Brookings	SD		
<u>Chladek, Danny W.</u>	St. Joseph	MO		
Harris; Louis L.	St. Joseph	MO		
Gorcyca; David E.	St. Joseph	MO		

US-CL-CURRENT: 435/5; 424/159.1, 424/204.1, 435/7.1, 435/7.92, 435/7.95, 530/388.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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Terms	Documents
Chladek Danny W.in.	11

WEST Search History

DATE: Wednesday, October 26, 2005

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DB=EPAB; PLUR=YES; OP=ADJ

☐ L31 WO-9731652-A1.did.

☐ L30 WO-9731652-A1.did.

DB=DWPI; PLUR=YES; OP=ADJ

☐ L29 Wesley R D.in.

DB=PGPB; PLUR=YES; OP=ADJ

☐ L28 L26 and PRRSV

DB=USPT; PLUR=YES; OP=ADJ

☐ L27 L26 and PRRSV

☐ L26 L25 and virus

☐ L25 differentiating

DB=DWPI; PLUR=YES; OP=ADJ

☐ L24 MEULENBERG J.in.

☐ L23 PRRSV and differentiating

☐ L22 PRRSV and NspI

☐ L21 PRRSVand NspI

☐ L20 swine infertility and respiratory syndrome and NspI

DB=USPT; PLUR=YES; OP=ADJ

☐ L19 swine infertility and respiratory syndrome and NspI

☐ L18 PRRSV and NspI

☐ L17 6015663.pn. and NspI

☐ L16 6015663.pn. and fragment

☐ L15 6015663

☐ L14 '5587164'.pn.

☐ L13 Mengeling William L.in.

☐ L12 detecting and differentiating between field strains and attenuated strain and PRRSV

☐ L11 L9 and differentiating

☐ L10 L9 and attenuated

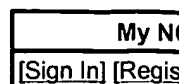
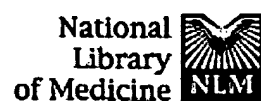
☐ L9 l8 and detecting

☐ L8 swine infertility and respiratory syndrome

☐ L7 L6 and virus

- ☐ L6 Collins James E.in.
- ☐ L5 van Woensel Petrus Alphonsus Maria.in.
- ☐ L4 L3 and virus
- ☐ L3 Visser Nicolaas.in.
- ☐ L2 Chladek Danny W.in.
- ☐ L1 ("4554159"|"5476778"|"5510258"|"5587164"|"5698203"|"5840563"|"5846805"|"5925359"

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Identification and clinical assessment of suspected vaccine-related field strains of porcine reproductive and respiratory syndrome virus.

Mengeling WL, Vorwald AC, Lager KM, Clouser DE, Wesley RD.

Virology Swine Research Unit, National Animal Disease Center, USDA, Agricultural Research Service, Ames, IA 50010, USA.

OBJECTIVE: To determine the origin and clinical relevance of selected strains of porcine reproductive and respiratory syndrome (PRRS) virus (PRRSV). **ANIMALS:** 38 pigs without antibodies for PRRSV. **PROCEDURE:** A seemingly uncommon restriction endonuclease digestion site in a commercially available vaccine strain of attenuated PRRSV was tested for its stability and prevalence under defined conditions. Selected field strains of PRRSV, with or without the restriction-site marker, were subsequently tested in pigs for virulence and for their ability to replicate competitively in pigs simultaneously given the vaccine. **RESULTS:** Under experimental conditions, the restriction-site marker was stable during long-term infection of pigs. It was not detected in any of the 25 field strains of PRRSV that were isolated before use of the vaccine or 21 of 25 field strains that were isolated after use of the vaccine but that, on the basis of previous testing, were believed unrelated to the vaccine strain. Conversely, it was detected in 24 of 25 field strains that were isolated after use of the vaccine and that, on the basis of previous testing, were believed to be direct-line descendants of the vaccine strain. Putative vaccine-related strains caused more pronounced pathologic changes than did the vaccine strain alone, and they predominated during replication in pigs also given the vaccine strain. **CONCLUSIONS:** In some swine herds, the vaccine strain may have persisted and mutated to a less attenuated form. **CLINICAL RELEVANCE:** The potential for persistence and mutation of specific strains of virus should be an important consideration when designing vaccination programs involving attenuated PRRSV.

PMID: 10188816 [PubMed - indexed for MEDLINE]

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Oct 18 2005 10:52:14

=> d 16 1-3

L6 ANSWER 1 OF 3 MEDLINE on STN
AN 2000432296 MEDLINE
DN PubMed ID: 10963352
TI Restriction fragment length polymorphism analysis of open reading frame 5
gene of porcine reproductive and respiratory syndrome virus isolates in
Korea.
AU Cheon D S; Chae C
CS Department of Veterinary Pathology, College of Veterinary Medicine and
School of Agricultural Biotechnology, Seoul National University, Suwon,
Republic of Korea.
SO Archives of virology, (2000) 145 (7) 1481-8.
Journal code: 7506870. ISSN: 0304-8608.
CY Austria
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200009
ED Entered STN: 20000922
Last Updated on STN: 20000922
Entered Medline: 20000914

L6 ANSWER 2 OF 3 MEDLINE on STN
AN 1999274845 MEDLINE
DN PubMed ID: 10343377
TI Porcine reproductive and respiratory syndrome virus infection in neonatal
pigs characterised by marked neurovirulence.
AU Rossow K D; Shivers J L; Yeske P E; Polson D D; Rowland R R; Lawson S R;
Murtaugh M P; Nelson E A; Collins J E
CS South Dakota Animal Disease Research and Diagnostic Laboratory, South
Dakota State University, Brookings 57007, USA.
SO Veterinary record, (1999 Apr 17) 144 (16) 444-8.
Journal code: 0031164. ISSN: 0042-4900.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199907
ED Entered STN: 19990730
Last Updated on STN: 19990730
Entered Medline: 19990720

L6 ANSWER 3 OF 3 MEDLINE on STN
AN 1998235873 MEDLINE
DN PubMed ID: 9576340
TI Differentiation of a porcine reproductive and respiratory syndrome virus
vaccine strain from North American field strains by restriction fragment
length polymorphism analysis of ORF 5.
AU Wesley R D; Mengeling W L; Lager K M; Clouser D F; Landgraf J G; Frey M L
CS Virology Swine Research Unit, National Animal Disease Center, USDA,
Agricultural Research Service, Ames, IA 50010, USA.
SO Journal of veterinary diagnostic investigation : official publication of
the American Association of Veterinary Laboratory Diagnosticians, Inc,
(1998 Apr) 10 (2) 140-4.
Journal code: 9011490. ISSN: 1040-6387.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AF020048; GENBANK-AF020049; GENBANK-AF020050
EM 199806
ED Entered STN: 19980625
Last Updated on STN: 20000303
Entered Medline: 19980616

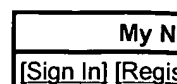
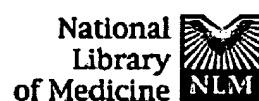
=> d 16 1-3 ab

L6 ANSWER 1 OF 3 MEDLINE on STN
AB The genetic variability of porcine reproductive and respiratory syndrome virus (PRRSV) was studied by restriction fragment length polymorphism (RFLP) of polymerase chain reaction (PCR)-amplified fragments among 50 Korean isolates from open reading frame 5. All Korean PRRSVs were isolated from the field cases after the marketing of an U.S. ATCC VR2332-derived modified live PRRSV vaccine. Combining the **restriction enzyme** digestion patterns obtained with MluI, HincII, SacII, and HaeIII, we observed 19 distinct RFLP patterns. Seventeen out of 50 PRRSV isolates (34%) exhibited the modified live PRRSV vaccine RFLP pattern. The genomic variations that have been identified in the present study seemed to represent characteristic features of the Korean PRRSV isolates. PCR-based RFLP analysis using several restriction enzymes provides a good genetic estimate for isolate differentiation.

L6 ANSWER 2 OF 3 MEDLINE on STN
AB Neonatal pigs from three herds of pigs were somnolent and inappetent and had microscopic lesions characterised by severe meningoencephalitis, necrotic interstitial pneumonia and gastric muscular inflammation. Porcine reproductive and respiratory syndrome virus (PRRSV) infection was diagnosed and confirmed by virus isolation, fluorescent antibody examination of frozen lung sections, serology, immunohistochemistry and in situ hybridisation. Each herd had a history of PRRSV infection and was using or had used a modified-live vaccine. The isolates from the affected pigs were genetically distinct from the modified-live vaccine strain of the virus when compared by **restriction enzyme** analysis and nucleotide sequencing of PRRSV open reading frames 5 and 6. The virus was identified in macrophages or microglia of brain lesions by immunohistochemical staining of brain sections with an anti-PRRSV monoclonal antibody and an anti-macrophage antibody. The replication of the virus in the brain was verified by in situ hybridisation. The meningoencephalitis induced by the virus in pigs from each of the herds was unusually severe and the brain lesions were atypical when compared with other descriptions of encephalitis induced by the virus, which should therefore be considered as a possible diagnosis for neonatal pigs with severe meningoencephalitis. In addition, field isolates of the virus which are capable of causing disease can emerge and coexist with modified-live vaccine virus in some pig herds.

L6 ANSWER 3 OF 3 MEDLINE on STN
AB The suitability of restriction fragment length polymorphism (RFLP) analysis for differentiating a porcine reproductive and respiratory syndrome virus (PRRSV) vaccine strain from other North American field strains was investigated. Open reading frame 5 nucleotide sequence data of the vaccine virus, its parent strain VR-2332, and 22 other strains of PRRSV included in this study indicated that 3 **restriction enzyme** gel patterns characterize the vaccine virus and the parent strain genotype. The combined 3 RFLP patterns differentiate the vaccine and parent virus from other PRRSV strains. This test will be a valuable tool in epidemiologic studies and will be useful in identifying individual strains in cases of multistrain PRRSV infections.

L11 ANSWER 12 OF 13 MEDLINE on STN
 AN 1998049273 MEDLINE
 DN PubMed ID: 9389405
 TI **Differentiation** of North American and European porcine
 reproductive and respiratory syndrome virus genotypes by in situ
 hybridization.
 AU Larochelle R; Magar R
 CS Laboratoire d'hygiene veterinaire et alimentaire, Agriculture et
 Agroalimentaire Canada, Saint-Hyacinthe, Quebec.. larocheller@em.agr.ca
 SO Journal of virological methods, (1997 Nov) 68 (2) 161-8.
 Journal code: 8005839. ISSN: 0166-0934.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199801
 ED Entered STN: 19980206
 Last Updated on STN: 19980206
 Entered Medline: 19980127
 AB Non-radioactive probes that can detect specifically North American and
 European isolates of porcine reproductive and respiratory syndrome virus (**PRRSV**) in formalin-fixed paraffin-embedded tissues by in situ
 hybridization were developed. These probes allow the
differentiation between North American and European genotypes of
 the PRRS virus as well as the detection of both genotypes. Two amplified
 cDNA products generated by polymerase chain reaction (PCR), one from the
 cDNA of the Canadian **PRRSV** LHVA-93-3 isolate and the second one
 from the European Lelystad isolate, and labelled with digoxigenin were
 utilized as probes. The LHVA-93-3 derived probe was found to detect
 Canadian and USA **PRRSV** isolates in infected cells, while the
 Lelystad derived probe hybridized only with European isolates. The
 specificity of both probes was also demonstrated on formalin-fixed tissues
 collected from **PRRSV** infected pigs. Furthermore, by combining
 the LHVA-93-3 (North American) probe and the Lelystad (European) probe,
 successful detection of both **PRRSV** genotypes in fixed tissues
 could be achieved.
 CT Animals
 Canada
 DNA Probes: DU, diagnostic use
 Europe
 Formaldehyde



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☐ 1: [Wesley RD, Mengeling WL, Lager KM, Clouser DF, Landgraf JG, Frey ML.](#) Related Articles, Links

Differentiation of a porcine reproductive and respiratory syndrome virus vaccine strain from North American field strains by restriction fragment length polymorphism analysis of ORF 5.

J Vet Diagn Invest. 1998 Apr;10(2):140-4.

PMID: 9576340 [PubMed - indexed for MEDLINE]

☐ 2: [Gagnon CA, Dea S.](#) Related Articles, Links

Differentiation between porcine reproductive and respiratory syndrome virus isolates by restriction fragment length polymorphism of their ORFs 6 and 7 genes.

Can J Vet Res. 1998 Apr;62(2):110-6.

PMID: 9553709 [PubMed - indexed for MEDLINE]

☐ 3: [Song DS, Yang JS, Oh JS, Han JH, Park BK.](#) Related Articles, Links

Differentiation of a Vero cell adapted porcine epidemic diarrhea virus from Korean field strains by restriction fragment length polymorphism analysis of ORF 3.

Vaccine. 2003 May 16;21(17-18):1833-42.

PMID: 12706667 [PubMed - indexed for MEDLINE]

☐ 4: [Laroche R, D'Allaire S, Magar R.](#) Related Articles, Links

Molecular epidemiology of porcine reproductive and respiratory syndrome virus (PRRSV) in Quebec.

Virus Res. 2003 Oct;96(1-2):3-14.

PMID: 12951261 [PubMed - indexed for MEDLINE]

☐ 5: [Itou T, Tazoe M, Nakane T, Miura Y, Sakai T.](#) Related Articles, Links

Analysis of open reading frame 5 in Japanese porcine reproductive and respiratory syndrome virus isolates by restriction fragment length polymorphism.

J Vet Med Sci. 2001 Nov;63(11):1203-7.

PMID: 11767054 [PubMed - indexed for MEDLINE]

☐ 6: [Wesley RD, Mengeling WL, Lager KM, Vorwald AC, Roof MB.](#) Related Articles, Links

Evidence for divergence of restriction fragment length polymorphism patterns following in vivo replication of porcine reproductive and respiratory syndrome virus.

Am J Vet Res. 1999 Apr;60(4):463-7.

PMID: 10211690 [PubMed - indexed for MEDLINE]

☐ 7: [Cheon DS, Chae C.](#)

[Related Articles](#), [Links](#)



Restriction fragment length polymorphism analysis of open reading frame 5 gene of porcine reproductive and respiratory syndrome virus isolates in Korea.

Arch Virol. 2000;145(7):1481-8.

PMID: 10963352 [PubMed - indexed for MEDLINE]

☐ 8: [Umthun AR, Mengeling WL.](#)

[Related Articles](#), [Links](#)



Restriction fragment length polymorphism analysis of strains of porcine reproductive and respiratory syndrome virus by use of a nested-set reverse transcriptase-polymerase chain reaction.

Am J Vet Res. 1999 Jul;60(7):802-6.

PMID: 10407470 [PubMed - indexed for MEDLINE]

☐ 9: [Cai HY, Alexander H, Carman S, Lloyd D, Josephson G, Maxie MG.](#)

[Related Articles](#), [Links](#)



Restriction fragment length polymorphism of porcine reproductive and respiratory syndrome viruses recovered from Ontario farms, 1998-2000.

J Vet Diagn Invest. 2002 Jul;14(4):343-7.

PMID: 12152819 [PubMed - indexed for MEDLINE]

☐ 10: [Opriessnig T, Halbur PG, Yoon KJ, Pogranichniy RM, Harmon KM, Evans R, Key KF, Pallares FJ, Thomas P, Meng XJ.](#)

[Related Articles](#), [Links](#)



Comparison of molecular and biological characteristics of a modified live porcine reproductive and respiratory syndrome virus (PRRSV) vaccine (ingelvac PRRS MLV), the parent strain of the vaccine (ATCC VR2332), ATCC VR2385, and two recent field isolates of PRRSV.

J Virol. 2002 Dec;76(23):11837-44.

PMID: 12414926 [PubMed - indexed for MEDLINE]

☐ 11: [Mengeling WL, Lager KM, Vorwald AC, Clouser DF.](#)

[Related Articles](#), [Links](#)



Comparative safety and efficacy of attenuated single-strain and multi-strain vaccines for porcine reproductive and respiratory syndrome.

Vet Microbiol. 2003 May 2;93(1):25-38.

PMID: 12591204 [PubMed - indexed for MEDLINE]

☐ 12: [Mengeling WL, Lager KM, Wesley RD, Clouser DF, Vorwald AC, Roof MB.](#)

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Diagnostic implications of concurrent inoculation with attenuated and virulent strains of porcine reproductive and respiratory syndrome virus.

Am J Vet Res. 1999 Jan;60(1):119-22.

PMID: 9918159 [PubMed - indexed for MEDLINE]

☐ 13: [Mengeling WL, Vorwald AC, Lager KM, Clouser DF, Wesley RD.](#)

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Identification and clinical assessment of suspected vaccine-related field strains of porcine reproductive and respiratory syndrome virus.

Am J Vet Res. 1999 Mar;60(3):334-40.

PMID: 10188816 [PubMed - indexed for MEDLINE]

☐ 14: [Cha SH, Chang CC, Yoon KJ.](#)


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